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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:35:03 ON 07 APR 2006

=> index all
FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED
FILE 'ENCOMPPAT2' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

INDEX '1MOBILITY, 2MOBILITY, ABI-INFORM, ADISCTI, AEROSPACE, AGRICOLA,
       ALUMINIUM, ANABSTR, ANTE, APOLLIT, AQUALINE, AQUASCI, AQUIRE, BABS,
       BIBLIODATA, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, BLLDB,
       CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEABA-VTB, ...'
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139 FILES IN THE FILE LIST IN STNINDEX

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search error messages that display as 0* with SET DETAIL OFF.

=> s ((surface (2a) enhanced (2a) raman) AND (coherent (2a) (anti-stokes) (2a) rar
           1    FILE AEROSPACE
           1    FILE ANABSTR
           1    FILE BIOSIS
           8    FILE BIOTECHABS
           8    FILE BIOTECHDS
  20 FILES SEARCHED...
           1    FILE CABA
          19    FILE CAPLUS
           5    FILE COMPENDEX
  35 FILES SEARCHED...
           1    FILE DGENE
           2    FILE DISSABS
  50 FILES SEARCHED...
           1    FILE EMBASE
           1    FILE ENCOMPLIT
           1    FILE ENERGY
           1    FILE EPFULL
  60 FILES SEARCHED...
          22    FILE IFIPAT
  76 FILES SEARCHED...
           9    FILE INPADOC
           7    FILE INSPEC
  89 FILES SEARCHED...
           2    FILE MEDLINE
           2    FILE NTIS
           3    FILE PASCAL
          28    FILE PCTFULL
 105 FILES SEARCHED...
           6    FILE SCISEARCH
           2    FILE TEMA
           2    FILE TOXCENTER
 127 FILES SEARCHED...
          59    FILE USPATFULL
           8    FILE USPAT2
          12    FILE WPIDS
 135 FILES SEARCHED...
          12    FILE WPINDEX

  28 FILES HAVE ONE OR MORE ANSWERS,  139 FILES SEARCHED IN STNINDEX

L1    QUE ((SURFACE (2A) ENHANCED (2A) RAMAN) AND (COHERENT (2A) (ANTI-STOKES) (
      2A) RAMAN))

=> d rank
F1          59   USPATFULL
F2          28   PCTFULL
F3          22   IFIPAT
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F4            19   CAPLUS
F5            12   WPIDS
F6            12   WPINDEX
F7             9   INPADOC
F8             8   BIOTECHABS
F9             8   BIOTECHDS
F10            8   USPAT2
F11            7   INSPEC
F12            6   SCISEARCH
F13            5   COMPENDEX
F14            3   PASCAL
F15            2   DISSABS
F16            2   MEDLINE
F17            2   NTIS
F18            2   TEMA
F19            2   TOXCENTER
F20            1   AEROSPACE
F21            1   ANABSTR
F22            1   BIOSIS
F23            1   CABA
F24            1   DGENE
F25            1   EMBASE
F26            1   ENCOMPLIT
F27            1   ENERGY
F28            1   EPFULL


=> file medline caplus scisearch
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       4.27       4.48

FILE 'MEDLINE' ENTERED AT 16:39:21 ON 07 APR 2006

FILE 'CAPLUS' ENTERED AT 16:39:21 ON 07 APR 2006
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FILE 'SCISEARCH' ENTERED AT 16:39:21 ON 07 APR 2006
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=> s ((surface (2a) enhanced (2a) raman) AND (coherent (2a) (anti-stokes) (2a) rar
L2            27 ((SURFACE (2A) ENHANCED (2A) RAMAN) AND (COHERENT (2A) (ANTI-STO
                 KES) (2A) RAMAN))

=> dup remove l2
PROCESSING COMPLETED FOR L2
L3            20 DUP REMOVE L2 (7 DUPLICATES REMOVED)

=> d ti 1-20

L3   ANSWER 1 OF 20  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Nucleic acid sequencing by raman monitoring of uptake of nucleotides
     during molecular replication

L3   ANSWER 2 OF 20  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Methods for nucleic acid sequencing by Raman spectroscopy monitoring of
     uptake of nucleotides during molecular replication

L3   ANSWER 3 OF 20     MEDLINE on STN                    DUPLICATE 1
TI   Single-molecule detection of biomolecules by surface-enhanced
       ***coherent***      ***anti***  -  ***Stokes***      ***Raman***
     scattering.

L3   ANSWER 4 OF 20  SCISEARCH  COPYRIGHT (c) 2006 The Thomson Corporation  on
     STN
TI     ***Coherent***      ***anti***  -  ***Stokes***      ***Raman***
     scattering on single-walled carbon nanotubes and copper phthalocyanine
     thin films excited through surface plasmons

L3   ANSWER 5 OF 20  CAPLUS  COPYRIGHT 2006 ACS on STN DUPLICATE 2
```

TI ***Coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering on single-walled carbon nanotube thin films excited through surface plasmons

L3 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Spectroscopic analysis system and method

L3 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods to increase nucleotide signals by Raman scattering

L3 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods and device for DNA sequencing using Raman spectroscopy

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
TI Amplification of ***coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering by a metallic nanostructure for a high resolution vibration microscopy

L3 ANSWER 10 OF 20 MEDLINE on STN DUPLICATE 4
TI Raman spectroscopy in chemical bioanalysis.

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods and device for nucleic acid sequencing by detecting Raman labeled nucleotides cross-linked to silver or gold nanoparticles using Raman spectroscopy

L3 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods and device for DNA sequencing using Raman spectroscopy

L3 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5
TI A ***Surface*** - ***Enhanced*** ***Raman*** and ab Initio Study of Spectra of Lumazine Molecules

L3 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Novel experimental and calculation methods in vibrational spectroscopy

L3 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Experimental observation of surface-enhanced ***coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 6
TI Surface-enhanced nonlinear spectroscopy

L3 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI New developments in Raman spectroscopy

L3 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Analytical application of laser Raman spectrometry

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface enhancement of ***coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering by colloidal spheres

L3 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI ***Surface*** -electromagnetic-wave- ***enhanced*** ***Raman*** scattering by overlayers on metals

=> d 3

L3 ANSWER 3 OF 20 MEDLINE on STN DUPLICATE 1
AN 2005265331 MEDLINE
DN PubMed ID: 15906991
TI Single-molecule detection of biomolecules by surface-enhanced ***coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering.
AU Koo Tae-Woong; Chan Selena; Berlin Andrew A
CS Precision Biology, Intel Research/CTM, Intel Corporation, Santa Clara, California 95054, USA.. tae-woong.t.koo@intel.com
SO Optics letters, (2005 May 1) Vol. 30, No. 9, pp. 1024-6.
Journal code: 7708433. ISSN: 0146-9592.
CY United States

DT (EVALUATION STUDIES)
Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200507
ED Entered STN: 20050524
Last Updated on STN: 20050706
Entered Medline: 20050705

=> d 9

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
AN 2004:148792 CAPLUS
DN 140:382472
TI Amplification of ***coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering by a metallic nanostructure for a high resolution vibration microscopy
AU Hayazawa, Norihiko; Ichimura, Taro; Hashimoto, Mamoru; Inouye, Yasushi; Kawata, Satoshi
CS Department of Applied Physics, Osaka University, Suita, 565-0871, Japan
SO Journal of Applied Physics (2004), 95(5), 2676-2681
CODEN: JAPIAU; ISSN: 0021-8979
PB American Institute of Physics
DT Journal
LA English
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:757874 CAPLUS
DN 139:256255
TI Methods and device for nucleic acid sequencing by detecting Raman labeled nucleotides cross-linked to silver or gold nanoparticles using Raman spectroscopy
IN Su, Xing; Berlin, Andrew; Koo, Tae-woong; Chan, Selena; Sundararajan, Narayan; Yamakawa, Mineo
PA Intel Corporation, USA
SO PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003078649	A2	20030925	WO 2003-US7641	20030311
	WO 2003078649	A3	20040422		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003186240	A1	20031002	US 2002-99287	20020314
	US 6972173	B2	20051206		
	CA 2478881	AA	20030925	CA 2003-2478881	20030311
	EP 1488002	A2	20041222	EP 2003-719382	20030311
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005519622	T2	20050707	JP 2003-576641	20030311
	US 2006029969	A1	20060209	US 2005-235796	20050926
PRAI	US 2002-99287	A	20020314		
	WO 2003-US7641	W	20030311		

=> d 16

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 6
AN 1991:689833 CAPLUS
DN 115:289833
TI Surface-enhanced nonlinear spectroscopy
AU Zhang, Pengxiang; Pan, Duohai; Huan, Yixian; Wang, Tianzhen; Fu, Kede
CS Inst. Phys., Acad. Sin., Beijing, 100080, Peop. Rep. China
SO Guangpuxue Yu Guangpu Fenxi (1991), 11(2), 1-9
CODEN: GYGFED; ISSN: 1000-0593
DT Journal; General Review
LA Chinese

=> d 19

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1984:182436 CAPLUS
DN 100:182436
TI Surface enhancement of ***coherent*** ***anti*** - ***Stokes*** ***Raman*** scattering by colloidal spheres
AU Chew, H.; Wang, D. S.; Kerker, M.
CS Clarkson Coll. Technol., Potsdam, NY, 13676, USA
SO Journal of the Optical Society of America B: Optical Physics (1984), 1(1), 56-66
CODEN: JOBPDE; ISSN: 0740-3224
DT Journal
LA English

=> d ab 19

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AB CARS signals may be strongly enhanced when the active mols. are located near the surface of a small Ag particle. The theor. anal. is similar to the electrodynamic mechanism for ***surface*** - ***enhanced*** ***Raman*** scattering, except that there are 4 instead of 2 elec. fields that stimulate collective electron oscillations within the particle. The general anal. is presented for a sphere of arbitrary size, for arbitrary angle between pump and probe beams, and for arbitrary polarization between pump and probe beams. This is then specialized to the small-particle limit for numerical computation. The peak enhancement for a monolayer of C6H6 on a Ag particle (excitation wavelength 404 nm, Raman shift 992 cm-1) is 1012 when both incident beams are polarized perpendicular to the incident plane and 1021 when these beams are cross polarized. These values are averaged over scattering angle. While the CARS amplitudes depend on scattering angle, only the enhancement factor for 1 of the cross-polarized components depends on scattering angle. Enhanced signals from a Ag organosol (Ag dispersed in neat benzene) should be measurable.

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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